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**NOTIFICATION CONCERNING
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(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

20 JUIL. 2004

Cabinet LAVOIX

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Applicant USINOR et al	

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
3. (If applicable) An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
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AMENDED CLAIMS

[received by the International Bureau on 25 October 2004 (25.10.2004);
original claims 1 and 21 amended; remaining claims unchanged (3 pages)]

1. A metal laminate comprising between two outer metal sheets an adhesive polymer layer, characterised in that the adhesive polymer layer comprises cross-linked polyethylene or a copolymer thereof, co-grafted with a silane compound and with an unsaturated carboxylic acid and/or a derivative thereof.
2. Metal laminate according to claim 1, wherein the surface of the first outer metal sheet is greater than the surface of the second outer metal sheet.
3. Metal laminate according to claim 1 or 2, wherein the outer metal sheets are made of steel or aluminium.
4. Metal laminate according to any of claim 1 to 3, wherein the adhesive polymer layer comprises more than 50 % in weight of cross-linked grafted polyethylene.
5. Metal laminate according to claim 4, wherein the adhesive polymer layer comprises 80 to 95 % in weight of cross-linked grafted polyethylene.
6. Metal laminate according to any of claims 1 to 5, wherein the cross-linked polyethylene is grafted with an unsaturated carboxylic acid containing 1 to 6 carboxylic groups and/or a derivative thereof.
7. Metal laminate according to claim 6, wherein the cross-linked polyethylene is grafted with maleic acid and/or a derivative thereof.

8. Metal laminate according to claim 7, wherein the cross-linked polyethylene is grafted with maleic acid anhydride.
9. Metal laminate according to any of claims 1 to 8, wherein the adhesive polymer layer comprises 0 to 80 % in weight of high-density polyethylene.
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10. Metal laminate according to claim 9, wherein the adhesive polymer layer comprises 50 to 80 % in weight of high-density polyethylene.
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11. Metal laminate according to any of claims 1 to 10, wherein the adhesive polymer layer comprises 20 to 95 % in weight of elastomer.
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12. Metal laminate according to claim 11, wherein the adhesive polymer layer comprises 20 to 45 % in weight of elastomer.
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13. Metal laminate according to any of claims 1 to 12, wherein the adhesive polymer layer also comprises 0.5 to 10 % in weight of a copolymer of styrene and an unsaturated carboxylic acid and/or a derivative thereof.
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14. Metal laminate according to claim 13, wherein the adhesive polymer layer comprises a styrene- maleic acid anhydride copolymer.
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15. Metal laminate according to any of claims 1 to 14, wherein the adhesive polymer layer further comprises 0.1 to 5 % in weight of an epoxy resin.

16. Metal laminate according to any of claims 1 to 15, wherein the organosilane compound is chosen from vinylalcoxysilanes, dialcoxysilanes, trialcoxysilanes or tetraalcoxysilanes
- 5 17. Metal laminate according to any of claims 1 to 16, wherein the adhesive polymer layer further comprises a flame retardant agent.
18. Metal laminate according to any of claims 1 to 17, wherein the adhesive polymer has a gel content of at least 15 % in weight.
- 10 19. Metal laminate according to claim 18, wherein the adhesive polymer has a gel content of at least 30 % in weight.
- 15 20. Metal laminate according to any of claims 1 to 19, wherein the polymer layer comprises an intermediate layer of cross-linked non-grafted polyethylene.
- 20 21. Process for the manufacture of a metal laminate according to any of claims 1 to 20 comprising the steps consisting in :
- a. Providing a first and a second metal sheet;
- b. Applying a polymer composition comprising cross-linked polyethylene or a copolymer thereof, co-grafted with a silane compound and with an unsaturated carboxylic acid and/or a derivative thereof onto the first metal sheet;
- c. Applying the second metal sheet onto the polymer layer applied onto the first metal sheet to obtain a metal laminate; and
- d. Heating the metal laminate to complete the adhesion.